



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H090435-C

Mode: Highway

Status: Submitted

NC-54

From/Cross Street: McCrimmon Parkway

Specific Improvement Type: 7 - Upgrade At-grade Intersection to Interchange or Grade Separation

To:

Project Category: Regional Impact

Length: 2

TIP#: -

Fully Funded in Draft STIP? No

Cost to NCDOT: \$18,600,000

Description:

Upgrade at-Grade Intersection to Grade Separation with Grade Separation of NCRR

Division(s): Division 5

County(s): WAKE

MPOS(s)/RPO(s): Capital Area MPO

Project Location



Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, MapmyIndia, © OpenStreetMap contributors, and the GIS User Community

Statewide Mobility Total Score: 0

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Totals: Weight: 0% Weighted Score: 0	N/A	N/A

Regional Impact Total Score: 62.97

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (25%) 82.75	Percent: 15% Points: 35	Percent: 15% Points: 35
Safety (10%) 66.65		
[Travel Time] Benefit/Cost (25%) 60.48		
Accessibility / Connectivity (10%) 66.00		
Totals: Weight: 70% Weighted Score: 52.47		

Division Needs Total Score: 35.31

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Congestion (V/C) (20%) 82.75	Percent: 25% Points: 0	Percent: 25% Points: 0
Safety (10%) 66.65		
[Travel Time] Benefit/Cost (20%) 60.48		
Totals: Weight: 50% Weighted Score: 35.31		

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	45
Length (miles):	2
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Other Principal Arterial
Terrain Type:	Rolling
Lane Width:	12
Paved Shoulder Width:	2
Roadway has Curb & Gutter?	No
Volume (AADT):	36000
Capacity:	31600
Volume/Capacity Ratio:	1.14
% Autos:	94%
% Trucks:	6%
Truck Volume:	2000
Crash Density:	0
Crash Severity:	0
Critical Crash Rate:	0
Crash Frequency:	100
Severity Index:	33.3
County Tier Designation:	3
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	47
Existing Median Type (for Cost Estimation):	Undivided
Pavement Condition Rating:	88
Actual Congested Speed:	31.67
Travel Time Index:	1.42

Project Benefits

Project Cross-Section:	
Speed Limit:	45
Length (miles):	2
Facility Type:	Arterial
Access Control:	Partial
Functional Classification:	Other Principal Arterial
TerrainType:	Rolling
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	4
Travel Time Savings for 30 Years (Total):	49978000
Travel Time Savings for 30 Years (Autos):	47201444.72
Travel Time Savings for 30 Years (Trucks):	2776555.28
Long-Term Employment:	
% Change in Economy:	
Provides Direct Connection to Transportation Terminal?	No
Does project upgrade how the roadway functions?	Yes
In CTP or LRTP?	No
CTP/LRTP Name:	
CTP/LRTP Completion Year:	
Submitted by:	Division 5

* Data reflects calculations which include weighted averages (where applicable) and represent raw output from the Department's SPOT On!line tool and associated databases.

Project Ownership**Division**

Division	Percent	Regional Impact	Division Needs
Division 5	100%	35	0
	0%	0	0
	0%	0	0
TOTAL Division Points		35	0

MPO/RPO

MPO/RPO	Percent	Regional Impact	Division Needs
Capital Area MPO	100%	35	0
	0%	0	0
	0%	0	0
TOTAL MPO/RPO Points		35	0

Project Cost and Source

Construction Cost:	\$15,000,000	Cost Estimation Tool
Right-of-Way Cost:	\$3,600,000	Cost Estimation Tool
Utilities Cost:	\$0	Cost Estimation Tool
Total Project Cost:	\$18,600,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$18,600,000	